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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/829,476	04/22/2004	Yoshihisa Nagano	740819-1052	5876
22204 7590 11/02/2007 NIXON PEABODY, LLP 401 9TH STREET, NW			EXAMINER .	
			. WILSON, SCOTT R	
SUITE 900 WASHINGTON, DC 20004-2128			. ART UNIT	PAPER NUMBER
			2826	
		·	MAIL DATE	DELIVERY MODE
			11/02/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/829,476	NAGANO ET AL.				
Office Action Summary	Examiner	Art Unit				
	Scott R. Wilson	2826				
The MAILING DATE of this communica Period for Reply	tion appears on the cover sheet wit	th the correspondence address				
A SHORTENED STATUTORY PERIOD FOR WHICHEVER IS LONGER, FROM THE MAIL - Extensions of time may be available under the provisions of 3 after SIX (6) MONTHS from the mailing date of this communic - If NO period for reply is specified above, the maximum statuto - Failure to reply within the set or extended period for reply will, Any reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b).	LING DATE OF THIS COMMUNIC 7 CFR 1.136(a). In no event, however, may a re- cation. bry period will apply and will expire SIX (6) MON' by statute, cause the application to become ABA	CATION. copy be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).				
Status						
	Responsive to communication(s) filed on <u>06 July 2007</u> .					
·	,—					
• •) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
closed in accordance with the practice	undej Ex parte Quayle, 1955 C.D.	. 11, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-7</u> is/are pending in the appli	•					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-7</u> is/are rejected. 7)□ Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction	n and/or election requirement.					
	· · · · · · · · · · · · · · · · · · ·					
Application Papers		·				
9) The specification is objected to by the E						
10) The drawing(s) filed on 22 April 2005 is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
•		•				
Priority under 35 U.S.C. § 119		440() ()				
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
1.⊠ Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International	Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO 		ummary (PTO-413))/Mail Date				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date		formal Patent Application				

Application/Control Number: 10/829,476

Art Unit: 2826

DETAILED ACTION

Response to Arguments

Applicant's arguments filed 7/6/2007 have been fully considered but they are not persuasive. As to the rejection of claims 1-7 based upon a defective reissue oath under 35 U.S.C. 251, it remains unclear exactly why the language at issue constitutes an error. The oath merely states the language should be removed, implying that the error was the original inclusion of the language. Why the original inclusion of the language constitutes an error is unknown. Given that the claims are read in light of the specification, it is clear from applicants figures what the language "an edge portion of the capacitor upper electrode" refers to. There is no teaching in which the portion of the capacitor upper electrode that extends beyond the capacitor lower electrode is formed on anything other than the protective insulating film. More detailed claim language, such as for example "the upper electrode with lateral extent greater than the lower electrode and with at least a portion of the non-overlapping portions formed at the same level as the lower electrode, on the protective insulating film" would have been desirable, but the current claim language is sufficient.

As to the 35 U.S.C. 103(a) rejection over Izumi et al. in view of Evans, Jr., applicant states that "it is noted that this reference (Izumi et al.) relates to a general DRAM and no where disclose or suggest a semiconductor device having a ferroelectric capacitor". The limitation of a ferroelectric capacitor does not appear in independent claim 1, only that of a metal oxide capacitor. Applicants also states that "Izumi et al. fails to disclose or remotely suggest first and second contact plugs." Izumi et al., Figure 9, does, in fact, teach first and second contact plugs. The first contact plug is the material formed between the impurity diffusion layer (2) and a point midway to the top of the capacitor lower electrode. Since the claim has no limitation as to the dimension of the contact plug, a portion of the thickness of the lower capacitor electrode is within the scope of being a contact plug. Likewise, the second contact plug is the material formed between the impurity diffusion layer (25) and a point midway to boundary between the wiring layer (11) and the inter-layer insulating film (14).

Application/Control Number: 10/829,476

Art Unit: 2826

Applicant states that the patent to Izumi et al. fails to disclose a hydrogen barrier film entirely covering the capacitor upper electrode. As noted in the rejection, this is true, which is why the grounds of rejection are on Izumi et al in view of Evans, Jr.. Applicant notes that Evans fails to teach a second contact plug providing a connection between the impurity diffusion region and the capacitor upper electrode. However, the only feature of Evans relied on in the grounds of rejection is the hydrogen barrier film. Izumi et al. teaches the first and second contact plugs, as described above.

Reissue Applications

The reissue oath/declaration filed with this application is defective because it fails to identify at least one error which is relied upon to support the reissue application. See 37 CFR 1.175(a)(1) and MPEP § 1414. The reason why the deletions of claim 1 correct an error or errors is unclear.

Claims 1-7 rejected as being based upon a defective reissue oath under 35 U.S.C. 251 as set forth above. See 37 CFR 1.175.

The nature of the defect(s) in the declaration is set forth in the discussion above in this Office action.

In addition, the declaration states that "If the reissue is a broadening reissue, such must be stated with an explanation as to the nature of the broadening." The deletions of claim 1, allegedly to correct errors, are broadened claims, however, there is no required statement.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

Application/Control Number: 10/829,476

Art Unit: 2826

the advisory action. In no event, however, will the statutory period for reply expire later than SIX

MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should

be directed to Scott R. Wilson whose telephone number is 571-272-1925. The examiner can normally be

reached on M-F 8:30 - 4:30 Eastern.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sue

Purvis can be reached on 571-272-1236. The fax phone number for the organization where this

application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be obtained from

either Private PAIR or Public PAIR. Status information for unpublished applications is available through

Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC)

at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative

or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-

1000.

srw

SUE A. PURVIS
SORY PATENT EXAMINER

Page 4

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